

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-15. (canceled)

16. (currently amended) A method for increasing the oil content of an oil-producing plant, comprising:

transforming said plant with a nucleotide sequence so that said organism expresses an enzyme that catalyzes the transfer of a fatty acid from acyl-CoA to diacylglycerol for the production of triacylglycerol (TAG), and wherein said enzyme comprises SEQ ID NO. 2, and wherein the oil content of said plant has been increased relative to a plant that has not been transformed.

17. (previously presented) The method according to claim 16, wherein said nucleotide sequence comprises SEQ ID NO. 1.

18. (previously presented) The method according to claim 16, wherein said nucleotide sequence is from a *saccharomyces cerevisiae* ARE1 gene.

19. (currently amended) A nucleotide sequence encoding for an enzyme that catalyzes the transfer of a fatty acid from acyl-CoA to diacylglycerol for the production of triacylglycerol (TAG), wherein said nucleotide sequence ~~is derived from SEQ. ID NO. 1 or *saccharomyces cerevisiae* ARE1 gene~~ encodes an enzyme having an amino acid sequence comprising SEQ ID No. 2.

20. (canceled)

21. (previously presented) A transgenic plant, comprising a plasmid or genome containing the nucleotide sequence according to claim 19, wherein said nucleotide sequence is transferred by recombinant DNA technology.

22. (currently amended) The transgenic plant according to claim 21, wherein said plant is ~~an oil seed crop~~ selected from agricultural plants.

23. (currently amended) The transgenic plant according to claim ~~23~~ 22, wherein said plant is ~~selected from agricultural plants~~ an oil seed crop.

24. (previously presented) The transgenic plant according to claim 23, wherein said nucleotide sequence is expressed under the control of a storage organ specific promoter.

25. (previously presented) The transgenic organism according to claim 24, wherein said nucleotide sequence is expressed under control of a seed-specific promoter.

26. (currently amended) A method for increasing the oil content of an oil-producing organism, comprising:

transforming said organism selected from the group consisting of *Arabidopsis* and yeast with a nucleotide sequence comprising SEQ. ID NO. 1 or ARE1 gene so that said organism expresses an enzyme and catalyzes the transfer of a fatty acid from acyl-CoA to diacylglycerol for the production of triacylglycerol (TAG), said enzyme comprising an amino acid sequence of SEQ ID No. 2, and wherein the oil content of said plant has been increased relative to a plant that has not been transformed.

27. (currently amended) A method for increasing the oil content of an oil-producing plant, comprising:

transforming said plant with a nucleotide sequence comprising SEQ. ID NO. 1 or ARE1 gene so that said organism

expresses an enzyme and catalyzes the transfer of a fatty acid from acyl-CoA to diacylglycerol for the production of triacylglycerol (TAG), said enzyme comprising an amino acid sequence of SEQ ID No. 2, and wherein the oil content of said plant has been increased relative to a plant that has not been transformed.